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(71)Applicant : SUMITOMO CHEM CO LTD

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(72)Inventor : MIKAMI TOSHIYUKI

YANAGI KAZUNORI

NAKAZAWA HIROSHI

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(54) METHOD FOR IDENTIFYING PEPTIDE ORIGINATED BY AMINO END OF AMINO  
END MODIFYING PROTEIN

(57)Abstract:

PROBLEM TO BE SOLVED: To identify a peptide originated with amino end (N end) simply even small sample, by selectively modifying an N end-amino group of the peptide obtained by fragmenting protein modified at the N end.

SOLUTION: N end  $\alpha$ -amino group of a peptide obtained by fragmenting protein modified at its N end is selectively modified. A mass of the peptide after the treatment is analyzed by a mass analysis, the peptide in which its mass change is not detected is identified, and can be identified to be a peptide originated with the N end of the N end modified protein. The peptide originated with the N end of the N end modified protein thus identified is provided, for example, for a tandem mass spectrometry, and hence a modified group of the N end can be identified, and an amino array decision is performed. Even the peptide generated by segmenting the N end modified protein and separated by a reversed-phase chromatography can be identified by the similar method.

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